

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (currently amended) A rotational molding system for molding a medical article comprising:
 - a multi-axis rotational molding machine;
 - a mold mounted to said molding machine wherein the interior of said mold defines a cavity in the desired shape of the medical article to be molded, **and wherein the interior of said mold is sized to allow for the thickness of a liner to coat an inside surface of said mold;**
 - a molding material feed path fluidly connected to said cavity and an exterior of said mold;
 - a vent path extending into the said cavity;
 - a vacuum path fluidly connected to said vent path; and
 - a solvent removal path fluidly connected to said vent path.
2. (original) The system according to claim 1 wherein said mold comprises first and second mold pieces matable to form a vacuum-tight seal along mating surfaces between said first and second pieces.
3. (cancelled)
4. (original) The system according to claim 2 wherein one piece of said mold has a hemispherical cavity shape.

5. (cancelled) The system according to claim 1 wherein said interior of said mold is sized to allow for the thickness of a liner to coat an inside surface of said mold.

6–20. (cancelled)

21. (currently amended) A system for rotationally molding a medical article comprising:

means for rotating a mold about at least two axes;

means for molding a material within said mold into the form of the medical article;

means for inserting a liner material into said mold wherein said liner material inserting means is fluidly connected to both an interior and an exterior of said mold;

means for inserting a molding material into said mold wherein said molding material inserting means is fluidly connected to both an interior and an exterior of said mold;

means for supplying vacuum to said mold fluidly connected to a vent path extending into a cavity of said mold; and

solvent removal means fluidly connected to said vent path.

22–38. (cancelled)

39. (withdrawn) The system according to claim 1 wherein said vent path has a lip at an interior end.

40. (previously presented) The system according to claim 1 wherein said solvent removal path is a solvent collection path.

41. (previously presented) The system according to claim 40 wherein said solvent collection path is a solvent condenser path.

42. (previously presented) The system according to claim 1 wherein said vacuum path and said solvent removal path are, at least in part, the same path.

43. (withdrawn) The system according to claim 21 wherein said vent path has a lip at an interior end.

44. (previously presented) The system according to claim 21 wherein said solvent removal means is a solvent collection means.

45. (previously presented) The system according to claim 44 wherein said solvent collection means is a solvent condenser means.

46. (previously presented) The system according to claim 21 wherein said vacuum supply means and said solvent removal means are, at least in part, the same means.

47. (new) A rotational molding system for molding a medical article comprising:

a multi-axis rotational molding machine;

a mold mounted to said molding machine wherein the interior of said mold defines a cavity in the desired shape of the medical article to be molded;

a liner that coats the inside surface of said mold to make it seamless;

a molding material feed path fluidly connected to said cavity and an exterior of said mold;

a vent path extending into the said cavity;

a vacuum path fluidly connected to said vent path; and

a solvent removal path fluidly connected to said vent path.

48. (new) A rotational molding system for molding a medical article comprising:
- a multi-axis rotational molding machine;
 - a mold mounted to said molding machine wherein the interior of said mold defines a cavity in the desired shape of the medical article to be molded;
 - a molding material feed path fluidly connected to said cavity and an exterior of said mold;
 - a vent path extending into the said cavity utilizing concentric openings and parallel vapor lines from the mold to the exterior of the machine, such that gas may be circulated through the mold;
 - a vacuum path fluidly connected to said vent path; and
 - a solvent removal path fluidly connected to said vent path.